

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	178	semantic near tree\$1	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 12:50
L2	120	semantic near tree\$1 and @ad<"20040122"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 12:51
L3	36	semantic near tree\$1 and @ad<"20040122" and (rate or rating or rank or ranking)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 12:51
L4	36	semantic near tree\$1 and @ad<"20040122" and (rate or rating or rank or ranking or agregat\$3)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 14:04
L5	0	semantic near tree\$1 and @ad<"20040122" same (rate or rating or rank or ranking or agregat\$3)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 12:58
L6	596	collaborative near filtering and similarity	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 14:05
L7	365	collaborative near filtering and similarity and @ad<"20040122"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 14:05
L8	258	collaborative near filtering and similarity and @ad<"20040122" and (rating or ranking)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 14:06

EAST Search History

L17	191	merg\$3 same ratings and @ad<"20040122"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 14:53
L18	19	merg\$3 adj4 ratings and @ad<"20040122"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 14:55
L19	0	(send and recieve) near ratings and (cell near phone or pda) and @ad<"20040122"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 14:57
L20	0	(send and recieve) near ratings and @ad<"20040122"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 14:57
L21	36	(send\$3 and receiv\$3) near ratings and @ad<"20040122"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 14:57
L22	8	(send\$3 and receiv\$3) near ratings and (cell near phone or pda or mobile) and @ad<"20040122"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 15:00
L23	36	(send\$3 and receiv\$3) near ratings and @ad<"20040122"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 15:00
L24	28	23 not 22	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 15:00

EAST Search History

L9	40	collaborative near filtering and similarity and @ad<"20040122" and (rating or ranking) and (pda)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 14:35
L10	218	8 not 9	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 14:35
L11	1	10 and merg\$3 near rat\$3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 14:22
L12	0	collaborative near filtering and @ad<"20040122" and merging near ratings	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 14:41
L13	220944	merging ame user same ratings	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 14:41
L14	40	merging same user same ratings	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 14:41
L15	17	14 and @ad<"20040122"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 14:53
L16	2	merg\$3 near ratings and @ad<"20040122"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 14:53

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- [#1](#) ((collaborative filtering)<in>metadata)
- [#2](#) ((collaborative filtering)<in>metadata)
- [#3](#) (((collaborative filtering)<in>metadata)<AND>((collaborative filtering)<in>metadata) and user similarity)
- [#4](#) (((collaborative filtering)<in>metadata)<AND>((collaborative filtering)<in>metadata) and user similarity)

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Set	Items	Description
S1	727066	(COMPUT? OR DETERMIN? OR TOTAL? OR TABULAT? OR CALCULAT? OR ESTIMAT? OR PROCESS? OR FIGUR? OR ASSESS? OR ASCRIB? OR CREAT? OR FORMULAT?) (5N) (RATE? OR RATING? ? OR RECOMMEND? OR SCORE? OR SCORING? OR VALUE? OR RANK??? ? OR COUNT? OR GRADE? OR GRADING OR MARK??? ? OR NUMBER?)
S2	431736	(BASE? ? OR BASING OR DERIV? OR DETERMIN? OR DEPEND?) (5N) (-COMPARABL? OR SIMILAR? OR APPROX? OR CLOSE? OR MATCH? OR CORRELAT? OR CORRESPOND? OR LIKE OR RELAT? OR COMPLIMENT?)
S3	787881	(ONE OR 1 OR FIRST OR 1ST OR PRIMARY OR INITIAL? OR ORIGINAL? OR MAIN OR REFER? OR SOURC?) (3N) (RATE? OR RATING? ? OR SCORE? OR SCORING? OR RECOMMEND? OR VALUE? OR RANK??? ? OR COUNT? OR GRADE? OR GRADING OR MARK??? ? OR NUMBER?)
S4	33871	S3(5N) (UPDAT? OR UP() (DATE? ? OR DATING) OR UPGRAD? OR REVIS? OR MODIF? OR CHANG? OR ENHANC? OR ALTER?)
S5	55632	S3(5N) (MERG??? OR FUSE? ? OR FUSING OR UNIFY? OR UNIFIE? ? OR SYNTHESI? OR HYBRID? OR COMBIN? OR INTEGRAT? OR INCLU? OR INCORPORAT? OR CONSOLIDAT?)
S6	550627	(SECOND??? OR 2ND OR 2 OR ANOTHER? OR TWO OR DIFFERENT OR ADDITIONAL OR MORE(2N)ONE OR REMOTE?) (3N) (RATE? OR RATING? ? OR SCORE? OR SCORING? OR RECOMMEND? OR VALUE? OR RANK??? ? OR COUNT? OR GRADE? OR GRADING OR MARK??? ? OR NUMBER?)
S7	4152	S1 AND S2 AND S4:S5 AND S6
S8	21186	(CLUSTER? OR GROUP? OR BUNCH? OR COLLABORAT? OR AGGREGAT? OR INTERACT?) (7N) (EXTRACT? OR WINNOW? OR FILTER? OR FILTRAT? OR SIEV??? OR SIFT???)
S9	31	S7 AND S8
S10	74	S7 AND (PDA? ? OR CELL()PHONE? OR CELLPHONE? OR (MOBILE OR WIRELESS?) (2N)DEVICE?)
S11	4	S10 AND (CLIENT?(2W)CLIENT? OR C2C OR PEER?(2W)PEER? OR P2P OR MEMBER?(2W)MEMBER? OR SUBSCRIBER?(2W)SUBSCRIBER?)
S12	31	S9 NOT S11
S13	485	S7 AND ((COMPUT? OR DETERMIN? OR CALCULAT?) (3N) (RATE? ? OR RATING? OR REVIEW? OR RECOMMEND?))
S14	3	S13 AND S8
S15	13	S13 AND (LAPTOP? OR PDA? ? OR CELL()PHONE? OR CELLPHONE? OR (MOBILE OR WIRELESS? OR PORTABL?) (2N) (DEVICE? OR APPARAT?))
S16	30	S13 AND (CLIENT?(2W)CLIENT? OR C2C OR PEER?(2W)PEER? OR P2P OR MEMBER?(2W)MEMBER? OR SUBSCRIBER?(2W)SUBSCRIBER? OR COLLABORAT? OR INTERACT?)
S17	41	S15:S16 NOT (S9 OR S11 OR S14)
S18	38	S17 AND PY=1978:2004
S19	41	S17 AND AY=1978:2004 AND AC=US
S20	41	S18:S19

File 350:Derwent WPIX 1963-2007/UD=200773

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File 347:JAPIO Dec 1976-2007/Jun(Updated 070926)

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12/69,K/14 (Item 14 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0011130268 - Drawing available
WPI ACC NO: 2002-066785/200209
XRPX Acc No: N2002-049565

System for determining the affinity between data items using objective and subjective data and forming a ranked result based on the adjusted affinities

Patent Assignee: NAPSTER INC (NAPS-N); ROXIO INC (ROXI-N)

Inventor: JANNINK J F; SCHIRMER T E; SHIVAKUMAR N

Patent Family (4 patents, 92 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
WO 2001090926	A2	20011129	WO 2001US40760	A	20010517	200209 B
AU 200163504	A	20011203	AU 200163504	A	20010517	200221 E
US 6697800	B1	20040224	US 2000574108	A	20000519	200415 E
AU 2001263504	A8	20051013	AU 2001263504	A	20010517	200611 E

Priority Applications (no., kind, date): ~~US 2000574108 A 20000519~~

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
WO 2001090926	A2	EN	30	6		
National Designated States,Original: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW						
Regional Designated States,Original: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW						
AU 200163504	A	EN			Based on OPI patent	WO 2001090926
AU 2001263504	A8	EN			Based on OPI patent	WO 2001090926

Alerting Abstract WO A2

NOVELTY - A filter (102) determines an affinity between a search item and other items in an objective database (104), where the determination uses data stored in objective and subjective databases (104,106). Objective data (120) can be collected from sources (114) and subjective data (122) from users (112) by the **filter**, while the users (112) **interact** with the **filter** via a user interface (108) and can enter a search item, with the resulting affinity relationship being displayed via the user interface, such as music from a favorite artist or song.

DESCRIPTION - AN INDEPENDENT CLAIM is included for a method for determining affinities using objective and subjective data.

USE - Determining affinity between items using objective and subjective data.

ADVANTAGE - Incorporating subjective data into a search process.

DESCRIPTION OF DRAWINGS - The drawing is a block diagram of the network

102 Filter

104,106 Databases

108 User interface

112 Users

Title Terms/Index Terms/Additional Words: SYSTEM; DETERMINE; AFFINITY; DATA ; ITEM; OBJECTIVE; SUBJECT; FORMING; RANK; RESULT; BASED; ADJUST

Class Codes

International Classification (Main): G06F-017/00, G06F-017/30

US Classification, Issued: 707005000

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): T01-J05B2; T01-J05B3; T01-J05B4P; T01-N03A2

...can be collected from sources (114) and subjective data (122) from users (112) by the filter, while the users (112) interact with the filter via a user interface (108) and can enter a search item, with the resulting affinity...

Original Publication Data by Authority

Original Abstracts:

A method of determining a relationship between a search item provided by a user and a plurality of objective items, wherein each objective item in...

...one or more search item properties, the method comprising: grouping a subset of objective items based on an objective relationship between one or more of the plurality of objective item properties and the one or more search item properties; modifying the subset based on a subjective relationship, wherein the subjective relationship indicates an association between objective items in the subset and the search item, thereby calculating an affinity value between each objective item in the subset and the search item; and ranking the objective items in the modified subset based on the affinity value calculated.

Claims:

What is claimed is: 1. A method of determining a relationship between a search item provided by a user and a plurality of objective items, wherein each objective item in the plurality includes...

...or more search item properties, the method comprising: a. grouping a subset of objective items based on an objective relationship between one or more of the plurality of objective item properties and the one or more search item properties; b. modifying the subset based on a subjective relationship, wherein the subjective relationship indicates an association between objective items in the subset and the search item, thereby calculating an affinity value between each objective item in the subset and the search item, and wherein subjective data of the subjective relationship is stored in a subjective database; c. ranking the objective items in the modified subset based on the affinity value calculated; and d. scaling the affinity value computed by one or more predetermined normalization weights, wherein the one or more predetermined normalization weights are initially set by the user.

Your Assignee ~~XX~~

12/69,K/18 (Item 18 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0009284791 - Drawing available
WPI ACC NO: 1999-214403/199918
XRPX Acc No: N1999-157806

Method for determining categorical clusters for world wide web

Patent Assignee: (INT BUSINESS MACHINES CORP) (IBMC)

Inventor: KLEINBERG J M; RAGHAVAN P

Patent Family (1 patents, 1 countries)

Patent

Application

Number	Kind	Date	Number	Kind	Date	Update
US 5884305	A	19990316	US 1997874381	A	19970613	199918 B

Priority Applications (no., kind, date): US 1997874381 A 19970613

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 5884305	A.	EN	14	5	

Alerting Abstract US A

NOVELTY - A categorical cluster rule which identifies correlated elements is derived, based on the updated associated values, after initializing the associated values for each of the elements based on probability distribution.

DESCRIPTION - The method performs the computation to update the initialized associated values of each elements. Due to computation, the associated values is changed to corresponding degree of correlation.

USE - For acquiring information from database using retail merchants, commercial passenger airline.

ADVANTAGE - Quickly accesses large databases.

DESCRIPTION OF DRAWINGS - The drawing represents the flow chart showing the method for determining categorical clusters.

Title Terms/Index Terms/Additional Words: METHOD; DETERMINE; CLUSTER; WORLD ; WIDE; WEB

Class Codes

International Classification (+ Attributes)

IPC + Level Value Position Status Version

G06F-0017/30 A I R 20060101

G06F-0017/30 C I R 20060101

US Classification, Issued: 707006000, 707001000, 707005000

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): T01-J05A; T01-J05B2B; T01-J05B4B; T01-J05B4P

Alerting Abstract ...NOVELTY - A categorical cluster rule which identifies correlated elements is derived, based on the updated associated values, after initializing the associated values for each of the elements based on probability distribution. DESCRIPTION - The method performs the computation to update the initialized associated values of each elements. Due to computation, the associated values is changed to corresponding degree of correlation...

Original Publication Data by Authority

Original Abstracts:

...the data tend to occur in common in multiple records. Initial values are assigned to the elements. In an iterative process, the associated value for each given one of the elements is recalculated based on the values of other elements which occur in...

Claims:

Claim 16. A system for extracting elements satisfying a predetermined criterion of correlation (a "categorical cluster") from a body of data, the data including a plurality of records, the records...

...set of common fields, the elements having respective values, some of the values being common to different ones of the records, the system comprising: means for initializing an associated value for each of the elements of the records; means for performing a computation to update the associated values based on the associated values of other elements, the computation causing the associated values to change value in a manner related to a degree of correlation; and means for deriving, from the updated associated values, a categorical cluster rule which identifies highly correlated elements.

12/69,K/19 (Item 19 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0008929588 - Drawing available
WPI ACC NO: 1998-480742/199841
XRPX Acc No: N1998-375134

Interactive system for extracting computer user's preferences -
determines user preference and connection attribute profile based on each
entered values in preselected list and ordering and truncation of weighted
evaluation, respectively

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)
Inventor: BINGHAM R E; DOCKTER M J; FARBER J F; PAUSER M L; RICHARDT R J
Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 5799298	A	19980825	US 1995512272	A	19950807	199841 B
			US 1997863534	A	19970527	

Priority Applications (no., kind, date): US 1995512272 A 19950807; US
1997863534 A 19970527

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 5799298	A	EN	15	6	Continuation of application US 1995512272

Alerting Abstract US A

The system makes use of set of graphical metaphor objects which
represents recognisable multi-trait profiles. A preselected list of
attributes describing each graphical metaphor objects is provided. A
graphical template enables entering of suitable value indicating user's
preferences. The entered value includes likes and dislikes of each
graphical metaphor object. Another template is used for extracting user's
valued preferences.

Each multi-trait graphical object attribute is blended based on user
values to provide weighted evaluation. An user preference profile is
determined based on weighted evaluation of each entered values included in
the preselected list and a connection attribute profile is determined based
on an ordering and truncation of weighted evaluation.

ADVANTAGE - Extracts user's preference interactively using metaphoric
objects. Develops metaphor implying common language without significant
teaching. Provides high quality of pattern matching and differentiation.

Title Terms/Index Terms/Additional Words: INTERACT; SYSTEM; EXTRACT;
COMPUTER; USER; DETERMINE; PREFER; CONNECT; ATTRIBUTE; PROFILE; BASED;
ENTER; VALUE; PRESELECTED; LIST; ORDER; TRUNCATE; WEIGHT; EVALUATE;
RESPECTIVE

Class Codes

International Classification (+ Attributes)
IPC + Level Value Position Status Version

G06F-0017/30	A	I	R	20060101
G06F-0009/44	A	I	R	20060101
G06F-0017/30	C	I	R	20060101
G06F-0009/44	C	I	R	20060101

US Classification, Issued: 707001000, 707501000, 707513000, 707516000,
707345000, 707005000, 707006000

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): T01-F05C; T01-J12

Interactive system for extracting computer user's preferences...

Alerting Abstract ...ADVANTAGE - Extracts user's preference interactively using metaphoric objects. Develops metaphor implying common language without significant teaching. Provides high quality of...

Original Publication Data by Authority

Original Abstracts:

A system and method for allowing communication of a large number of parameters from a computer user to an application program with a relatively small amount of interaction. The system uses a plurality of graphical...

Claims:

...each of said graphical metaphor objects; a first graphical template which enables entering of a value representing a user's preferences, including likes and dislikes, of each of said graphical metaphor objects, a second template for extracting a user's valued preferences of a connection between two objects; said extracting of a user's preferences of a value of a connection comprises entering a value representing a user's preferences of each of said graphical metaphors as it relates to said connection; blending of each of said multi-trait graphical object attributes based on said user values to provide a weighted evaluation, and wherein a user preference profile is determined based on said weighted evaluation of each of said values entered as they relate to said preselected list of attributes and a connection attribute profile is further determined based on an ordering and truncation of said weighted evaluation.

20/69,K/5 (Item 5 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0014649877 - Drawing available
WPI ACC NO: 2004-831896/ 200482
XRPX Acc No: N2004-657295

Merchants information providing system for use in financial transaction network, has computer system combining similar identified merchants to form ranked set, and communicating few merchants of set to user information

Patent Assignee: ANDRE O (ANDR-I)

Inventor: ANDRE O

Patent Family (2 patents, 106 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 20040225509	A1	20041111	US 2003431411	A	20030507	200482 B
WO 2004100025	A2	20041118	WO 2004BE63	A	20040504	200482 E

Priority Applications (no., kind, date): US 2003431411 A 20030507

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20040225509	A1	EN	39	11	
WO 2004100025	A2	EN			

National Designated States, Original: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Regional Designated States, Original: AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW

Alerting Abstract US A1

NOVELTY - The system has a computer system (10) for identifying a set of merchants from a set of information selected from a group consisting of a subset of the user's payment tools transactions history, a subset of the user's accounts transactions history, an input of reference merchants by the user. The system combines similar identified merchants to form a ranked set, and communicating few merchants of the set to user information.

USE - Used in a financial transaction network for providing information e.g. unique merchant identification code, on merchants to users of the network.

ADVANTAGE - The method facilitates the financial transaction network to automatically deepens its relationship with its user's and its affiliated merchants, and hence creating a virtuous circle in favor of the use of the payment tool.

DESCRIPTION OF DRAWINGS - The drawing shows an illustration of the overall description of an implementation of a recommendation service that operates in merchants information providing system, and represents the flows of information between the components of the system.

- 10 Computer system
- 30 Merchants information table
- 50 Web server
- 60 Customer service server
- 70 Customer service equipment

Title Terms/Index Terms/Additional Words: MERCHANT; INFORMATION; SYSTEM; FINANCIAL; TRANSACTION; NETWORK; COMPUTER; COMBINATION; SIMILAR; IDENTIFY ; FORM; RANK; SET; COMMUNICATE; USER

Class Codes

International Classification (Main): G06F-017/60
US Classification, Issued: 705001000

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): T01-N01A1; T01-N01A2D

Original Publication Data by Authority

Original Abstracts:

A computer -implemented service recommends merchants affiliated to one or several financial transaction networks based on transaction information and other available information. In one...

...an additional merchant is selected to be included in the list based in-part upon whether that merchant is related to one or more of the transacted merchants. The merchants relationships are preferably determined by an off-line process that analyzes members transactions histories and other available information to identify correlations between merchants.

Claims:

...merchants, to sets of similar items from the institution main data structure database of merchants including items similarity index values, each similarity index value indicating a degree of similarity between two items; and a computer system for recommendation process which generates personalized recommendations to users selected from the group consisting of members and non-members, by at least: (a) identifying a plurality of merchants from at least one set of information selected from the group consisting of a subset of the user's...

20/69,K/22 (Item 22 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0010915094 - Drawing available
WPI ACC NO: 2001-536485/ 200159
Related WPI Acc No: 1999-404852
XRPX Acc No: N2001-398466

Financial advisory system generating return scenarios for each asset class
based on estimated future scenarios of one or more economic factors

Patent Assignee: FINANCIAL ENGINES (FINA-N); FINANCIAL ENGINES INC
(FINA-N); FINE K (FINE-I); JONES C L (JONE-I); MAGGIONCALDA J N
(MAGG-I); SHARPE W F (SHAR-I); TAUBER E (TAUB-I)

Inventor: BEKAERT G; FINE K; GRENADIER S R; JONES C L; MAGGIONCALDA J N;
PARK R T; SCOTT J S; SHARPE W F; TAUBER E; WATSON J G

Patent Family (7 patents, 93 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
WO 2001057710	A2	20010809	WO 2001US3372	A	20010201	200159	B
AU 200133235	A	20010814	AU 200133235	A	20010201	200173	E
US 20020138386	A1	20020926	US 2000495982	A	20000201	200265	E
			US 2001904707	A	20010712		
EP 1264243	A2	20021211	EP 2001905344	A	20010201	200301	E
			WO 2001US3372	A	20010201		
US 20060010060	A1	20060112	US 1997982942	A	19971202	200605	E
			US 2000495982	A	20000201		
			US 2005219513	A	20050902		
US 7016870	B1	20060321	US 1997982942	A	19971202	200621	E
			US 2000495982	A	20000201		
US 7062458	B2	20060613	US 1997982942	A	19971202	200639	E
			US 2000495982	A	20000201		
			US 2001904707	A	20010712		

Priority Applications (no., kind, date): US 2005219513 A 20050902; US
2001904707 A 20010712; US 1997982942 A 19971202; US 2000495982 A
20000201

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
WO 2001057710	A2	EN	61	8	
National Designated States,Original: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW					
Regional Designated States,Original: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW					
AU 200133235	A	EN			Based on OPI patent WO 2001057710
US 20020138386	A1	EN			Continuation of application US 2000495982
EP 1264243	A2	EN			PCT Application WO 2001US3372 Based on OPI patent WO 2001057710
Regional Designated States,Original: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR					
US 20060010060	A1	EN			C-I-P of application US 1997982942 Division of application US 2000495982
					C-I-P of patent US 6021397
US 7016870	B1	EN			C-I-P of application US 1997982942 C-I-P of patent US 6021379
US 7062458	B2	EN			C-I-P of application US 1997982942 Continuation of application US

Alerting Abstract WO A2

NOVELTY - Raw data may be refined and processed into useful data in a financial staging server (120), converting data into a standard format for use in the system (100). Various financial engines may be run to generate data for validation and quality assurance and a database server (115) provides single points of access to all fund information and analytic data, while an advice server (110) acts as a proxy between an external system (125) and the database server.

USE - Advising a user regarding feasible and optimal portfolio allocation among financial products.

ADVANTAGE - Providing specific advice to users.

DESCRIPTION OF DRAWINGS - The drawing shows the system

120 Financial staging server

100 System

115 Database server

110 Advice server

Title Terms/Index Terms/Additional Words: FINANCIAL; ADVICE; SYSTEM;
GENERATE; RETURN; CLASS; BASED; ESTIMATE; FUTURE; ONE; MORE; ECONOMY;
FACTOR

Class Codes

International Classification (Main): G06F-017/00, G06F-017/60

International Classification (+ Attributes)

IPC + Level Value Position Status Version

G06F-0017/00 A I F B 20060101

G06Q-0040/00 A I F B 20060101

US Classification, Issued: 705036000, 705035000, 705035000, 705036000

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): T01-H07C5E; T01-H07C5S; T01-J05A1; T01-J05A2;

T01-J05B2; T01-J05B4P

Original Titles:

...User Interface for a financial advisory system that allows an end user to interactively explore tradeoffs among input decisions...

Original Publication Data by Authority**Original Abstracts:**

...to one aspect of the present invention, return scenarios for optimized portfolio allocations are simulated **interactively** to facilitate financial **product** selection. Return scenarios for each asset class of a plurality of asset classes are generated...

...of the invention, a set of one or more input objects and a set of **output values** are displayed. The input objects **include** an indication of a target retirement age, an indication of a target level of investment ...

...retirement income in current dollars. After updated values for the input decisions are received via **one or more** of the input objects, one or **more** new output **values** are **determined** based upon the **updated** input decisions. The set of output **values** is then refreshed to reflect the one or **more** new output **values**.

...
...to one aspect of the present invention, return scenarios for optimized portfolio allocations are simulated **interactively** to facilitate financial product selection. Return scenarios for each asset class of a **plurality** of asset classes are generated based upon estimated future scenarios of one or more economic...

...to one aspect of the present invention, return scenarios for optimized portfolio allocations are simulated **interactively** to facilitate financial product selection. Return scenarios for each asset class of a plurality of asset classes are **generated** based upon estimated future scenarios of one or more economic factors. A mapping from each...

...values for the input decisions are received via one or more of the input objects, **one** or more new output **values** are **determined** based upon the **updated** input decisions. The set of **output values** is then refreshed to reflect the **one** or **more** new output **values**.

Claims:

...of investment risk, and an indication of a retirement income goal; displaying a set of **one** or **more** output **values**, the set of output **values** including an indication of the **probability** of achieving the retirement income goal and an indication of the most likely retirement income in current dollars based upon one or more input decisions and a recommended set of financial products; receiving an **updated** input decision via **one** or **more** of the input objects; determining **one** or **more** new output **values** based upon the **updated** input decision; and refreshing the set of **one** or more output **values** to reflect the **one** or **more** new output **values**.

...
...product of a set of financial products available to the particular investor for investment; and **identifying** a **recommended** efficient **portfolio** of financial products from the set of financial products by maximizing an expected utility of wealth for...

...from the available set of financial products; and a portfolio optimization means for identifying a **recommended** portfolio of the plurality of efficient portfolios that maximizes an expected utility of wealth for a particular investor based on
Basic Derwent Week: 200159

20/69,K/27 (Item 27 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0010741825 - Drawing available
WPI ACC NO: 2001-354437/ 200137
Related WPI Acc No: 2002-240173
XRPX Acc No: N2001-257510

Investor performance evaluation for business investment systems, by
computing investor performance score using average historical
performance, historical performance consistency and number of investment
transactions

Patent Assignee: BETTIS J C (BETT-I); COLUMBUS C E (COLU-I); SCORELAB INC
(SCOR-N); THOMSON FINANCIAL INC (THOM-N)

Inventor: BETTIS J C; COLUMBUS C E

Patent Family (6 patents, 92 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
WO 2000079433	A1	20001228	WO 2000US16735	A	20000619	200137 B
AU 200054961	A	20010109	AU 200054961	A	20000619	200137 E
US 20020022988	A1	20020221	US 1999139771	P	19990618	200221 E
			US 2000196314	P	20000412	
			US 2000597742	A	20000619	
			US 2001829439	A	20010410	
US 7016872	B1	20060321	US 1999139771	P	19990618	200621 E
			US 2000597742	A	20000619	
US 20060161492	A1	20060720	US 1999139771	P	19990618	200648 E
			US 2000597742	A	20000619	
			US 2006385214	A	20060320	
US 20060161493	A1	20060720	US 1999139771	P	19990618	200648 E
			US 2000597742	A	20000619	
			US 2006385349	A	20060320	

Priority Applications (no., kind, date): US 2006385349 A 20060320; US
2006385214 A 20060320; US 2001829439 A 20010410; US 2000597742 A
20000619; US 2000196314 P 20000412; US 1999139771 P 19990618

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
WO 2000079433	A1	EN	100	21	
National Designated States,Original: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW					
Regional Designated States,Original: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW					
AU 200054961	A	EN			Based on OPI patent WO 2000079433
US 20020022988	A1	EN			Related to Provisional US 1999139771 Related to Provisional US 2000196314 C-I-P of application US 2000597742
US 7016872	B1	EN			Related to Provisional US 1999139771
US 20060161492	A1	EN			Related to Provisional US 1999139771 Division of application US 2000597742
US 20060161493	A1	EN			Division of patent US 7016872 Related to Provisional US 1999139771 Continuation of application US 2000597742 Continuation of patent US 7016872

Alerting Abstract WO A1

NOVELTY - Performance score showing investor's performance relative to other investors is determined based on average historical performance of at least one investment following one transaction, historical consistency of investor's performance with respect to investment transactions and number of transactions made by investor. The determined performance score of investor is compared with that of other investors.

DESCRIPTION - The performance score of investor is determined based on average historical performance of one investment considered over span of three and six months, and confidential data. The performance score increases when rate of return of investment increases and transactions is buy transaction or when rate of return of investment decreases and transaction is sell transaction. The performance score decreases when rate of return of investment decreases and transaction is buy transaction or when rate of return of investment increases and transaction is sell transaction. INDEPENDENT CLAIMS are also included for the following:

1. Investor rank list producing method;
2. Investor performance evaluating system;
3. Investor rank list producing system;
4. Investor performance evaluating program;
5. Investor rank list producing program;
6. Interactive computer implemented interface for displaying investor rank list

USE - In business investment system for evaluating relative performance of investors or investment traders of corporate insiders.

ADVANTAGE - Provides information concerning insider or trader's action along with information about reliability of particular insider or trader's actions for efficiently evaluating their performance. Performance score is used to produce ranked list of investors in particular industry, as well as with investors in different industries.

DESCRIPTION OF DRAWINGS - The figure shows the flowchart explaining investor performance evaluating method.

Title Terms/Index Terms/Additional Words: PERFORMANCE; EVALUATE; BUSINESS; INVESTMENT; SYSTEM; COMPUTATION; SCORE; AVERAGE; HISTORY; CONSISTENCY; NUMBER; TRANSACTION

Class Codes

International Classification (+ Attributes)

IPC + Level Value Position Status Version

G06F-0017/60	A	I	F	B	20051231
G06Q-0010/00	A	I		R	20060101
G06Q-0040/00	A	I		R	20060101
G06Q-0040/00	A	I	F	B	20060101
G06Q-0010/00	C	I		R	20060101
G06Q-0040/00	C	I		R	20060101

US Classification, Issued: 705011000, 705035000, 705037000, 705035000, 705037000, 705036R00, 705035000

File Segment: EPI;

DWPI Class: T01; T03

Manual Codes (EPI/S-X): T01-J03; T01-J04C; T01-J05A; T01-J05A2; T01-J05B; T01-S03

Investor performance evaluation for business investment systems, by computing investor performance score using average historical performance, historical performance consistency and number of investment transactions

Alerting Abstract ...NOVELTY - Performance score showing investor's performance relative to other investors is determined based on average historical performance of at least one investment following one transaction, historical consistency of...

...s performance with respect to investment transactions and number of transactions made by investor. The determined performance score of investor is compared with that of other investors. **DESCRIPTION** - The performance score of investor is determined based on average historical performance of one investment considered over span of three and six...

...producing method; Investor performance evaluating system; Investor rank list producing system; Investor performance evaluating program; **Investor rank list producing program; Interactive computer implemented interface for displaying investor rank list**

...

...is used to produce ranked list of investors in particular industry, as well as with investors in different industries.

Original Publication Data by Authority

Original Abstracts:

...least one revision issued by the analyst involving at least one investment. This evaluation includes determining a conditional performance score indicative of the analyst's performance relative to other investors. The performance score is determined at least in part by considering an average historical performance of the investment, following the revision. In addition, the performance score is also determined using a historical consistency of the analyst's performances with respect to revisions involving the investment, and a number of revisions made by the analyst. Then, the performance score may be adjusted according to one or more adjustments, including adjustments for accentuating a number of issued revisions and a return amount, to generate a final performance score...

...the investor, such as an individual or entity, involving at least one investment. This evaluation includes determining a performance score indicative of the investor's performance relative to other investors. The performance score is determined at least in part by considering an average historical performance of the investment, following the transaction. In addition, the performance score is also determined by a historical consistency of the investor's performances with respect to transactions involving the investment, and the number of transactions made by the...

...investor, such as an individual or entity, involving at least one investment. This evaluation includes determining a performance score indicative of the investor's performance relative to other investors. The performance score is determined at least in part by considering an average historical performance of the investment, following the transaction. In addition, the performance score is also determined by a

historical consistency of the investor's performances with respect to transactions involving the investment, and the number of transactions made by the investor. Then, the performance score of the investor may be...

...a ranked list of investors in a particular industry, as well as with investors in different industries...

...the investor, such as an individual or entity, involving at least one investment. This evaluation includes determining a performance score indicative of the investor's performance relative to other investors. The performance score is determined at least in part by considering an average historical performance of the investment, following the transaction. In addition, the performance score is also determined by a historical consistency of the investor's performances with respect to transactions involving the investment, and the number of transactions made by the investor. Then, the performance score of the investor may be...

...to produce a ranked list of investors in a particular industry, as well as with investors in different industries...

...investor, such as an individual or entity, involving at least one investment (35). This evaluation includes determining a performance score indicative of the investor's performance relative to other investors (37). The performance score is determined at least in part by considering an average historical performance of the investment, following the transaction (32). In addition, the performance score is also determined by a historical consistency of the investor's performances with respect to transactions involving the investment (35a), and the number of transactions made by the investor. Then, the performance score of the investor may be compared against the performance scores of other investors (31). Advantageously...

...ranked list of investors in a particular industry (32a), as well as with investors in different industries (31a).

...ou une entite, impliquant au moins un investissement (35). Cette operation d'evaluation consiste a determiner un resultat de performance indiquant la performance de l'investisseur par rapport a d'autres...

Claims:

...downward change in opinion of the analyst with regard to the at least one investment; calculating a conditional performance score indicative of the analyst's performance relative to other analysts, said raw conditional performance score determined at least in part by considering a measure of variability of the analyst's performance, an average historical performance of the at least one investment following the at least one revision, a standard deviation of the at least one revision, a number of revisions made by the analyst, and a likelihood that the at least one revision will actually produce an expected result; and adjusting said conditional performance score according to a return amount adjustment to produce a final performance score...

...made by the investor involving at least one investment, said method comprising the steps of: determining a performance score indicative of the investor's performance relative to other investors, said performance score determined at least in part by considering an average historical performance of the at least one investment following the at least one transaction, a historical consistency of the investor's performances with respect to transactions involving the at least one investment, and the number of transactions...

...involving investments associated with the investors, said method

comprising the steps of: generating a conditional raw score for the investor; generating an adjustment to the conditional raw score by utilizing a total number of transactions occurring more than or equal to a first period of time, and said total number of transactions occurring more than or equal to a second period of time; and generating a raw score indicative of said investor's performance based upon said adjustment to said conditional raw score .

What ...

...What is claimed is: 1. A computer implemented method for use in producing a ranked list of investors according to an evaluation...

...generating an evaluation list by removing investors failing to meet predetermined criteria from said list; calculating, using a computer, a performance score for each investor listed on said evaluation list indicative of the investor's performance by considering an...

...the at least one investment, and the number of transactions made by the investor, said calculating the performance score for each investor on said evaluation list comprises: determining a first average return value (ave. return1) and a second average return value (ave. return2) for the at least one transaction, said first and said second average return values corresponding respectively to an average rate of return on the at least one transaction involving the investment for a first period of time (time1) and an average rate of return on the at least one transaction involving the investment for a second period of time (time2); calculating, in absolute terms, a first t-stat value (t-stat1) for said first average return value and a second t-stat value (t-stat2) for said second average return value, said first and second t-stat values calculated by utilizing said first and second average return values, a first standard deviation (SD1) and a second standard deviation (SD2), a total number of transactions (decisions1) occurring more than or equal to the first period of time before said evaluating, and a total number of transactions (decisions2) occurring more than or equal to the second period of time before said evaluating; calculating a first degree of freedom (DF1) for said first average return value and a second degree of freedom (DF2) for said second average return value; determining a first probability (prob1) for said first period of time by utilizing said first t-stat value and said first degree of freedom, and a second probability (prob2) for said second period of time by utilizing said second t-stat value and said second degree of freedom; generating a conditional raw score (cond. raw score) for the investor by utilizing said first and second probabilities; generating an adjustment to the conditional raw score (adjustment) by utilizing said total number of transactions occurring more than or equal to the first period of time before said evaluating, and said total number of transactions occurring more than or equal to the second period of time before said evaluating; and generating a raw score (raw score) indicative of said investor's performance by adding said adjustment to said conditional raw score; and calculating, for each investor using said performance scores, a final transaction score indicative of the investor's relative performance with respect to all investors on said evaluation list. Basic Derwent Week: 200137

20/69,K/32 (Item 32 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0009284782 - Drawing available
WPI ACC NO: 1999-214394/ 199918
Related WPI Acc No: 1998-446517
XRPX Acc No: N1999-157797

Stem selection method for recommendation to users

Patent Assignee: ROBINSON G B (ROBI-I)

Inventor: ROBINSON G B

Patent Family (1 patents, 1 countries)

Patent

Application

Number	Kind	Date	Number	Kind	Date	Update
US 5884282	A	19990316	US 1997838233	A	19970415	199918 B
			US 1997848317	A	19970430	
			US 199858445	A	19980409	

Priority Applications (no., kind, date): US 1997838233 A 19970415; US 1997848317 A 19970430; US 199858445 A 19980409

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 5884282	A	EN	31	7	C-I-P of application US 1997838233
					Continuation of application US
1997848317					
					Continuation of patent US 5790426

Alerting Abstract US A

NOVELTY - The range of randomized transformed ratings data is computed which is used in combination with transformed ratings data to determine test statistics. The similarity value is determined from the test statistics for one user with respect to, other user.

DESCRIPTION - The ratings data which is obtained for some of the items, from various users includes information about overall ratings distribution for the item. A common item regarding ratings data provided by two users is located, and that ratings data is transformed to obtain transformed ratings data. An INDEPENDENT CLAIM is included for item selection system.

USE - For recommendation of items to users based on preference similarities.

ADVANTAGE - Provides recommendations with statistically meaningful confidence levels by determining similarity value of preferences of users.

DESCRIPTION OF DRAWINGS - The figure shows exemplary flow chart of item selection process.

Title Terms/Index Terms/Additional Words: STEM; SELECT; METHOD; USER

Class Codes

International Classification (+ Attributes)

IPC + Level Value Position Status Version

G06F-0017/30 A I R 20060101

G06F-0017/30 C I R 20060101

US Classification, Issued: 705027000, 705012000, 705026000, 707010000, 707102000, 395200320

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): T01-J05B1; T01-J08B; T01-S01B

Original Titles:

Automated collaborative filtering system.

Alerting Abstract ...NOVELTY - The range of randomized transformed ratings data is computed which is used in combination with transformed ratings data to determine test statistics. The similarity value is determined from the test statistics for one user with respect to, other user....various users includes information about overall ratings distribution for the item. A common item regarding ratings data provided by two users is located, and that ratings data is transformed to obtain transformed ratings data. An...

...USE - For recommendation of items to users based on preference similarities .

...

...ADVANTAGE - Provides recommendations with statistically meaningful confidence levels by determining similarity value of preferences of users

Original Publication Data by Authority

Original Abstracts:

An automated collaborative filtering (ACF) system for recommending at least one item to a first user based on similarity in preference of the user as compared with other users. The ACF system stores rating data for items provided by users of the system. Upon request of the first user, the system determines similarity values for the first user as compared with other users that have provided rating data for items that the first user has also rated. Based on the similarity values, a subgroup of users is selected that is then used to provide recommendations to the first user.

Claims:

...users, wherein the ratings data for each of the respective items includes information about the overall ratings distribution for the item ;locating a first common item that the first user and a second user in the plurality of users have provided ratings data for;transforming the ratings data for the first common item from the ratings data...

...item provided by the first ones of the plurality of users to provide first transformed ratings data; computing a range of randomized transformed ratings data for the first common item from the ratings data for the first common item provided by the first ones of the plurality of users;determining a test statistic for the first common item from the first transformed ratings data and the range of randomized transformed ratings data; and determining a similarity value from the test statistic for the first user with respect to the second user.>

Basic Derwent Week: 199918

Set	Items	Description
S1	4166346	RATING? ? OR SCORE? OR SCORING? OR VALUE? OR RANK??? ? OR - COUNT? OR GRADE? OR GRADING OR MARK??? ? OR NUMBER?
S2	369584	S1(5N) (RECEIV? OR ACCEPT? OR ACQUIR? OR OBTAIN? OR DOWNLOA- D? OR PULL???()DOWN?? OR PROCUR??? OR GET? ? OR FETCH??? OR R- ETRIEV? OR ACCESS?)
S3	504424	S1(5N) (DELIVER? OR SEND??? OR SENT OR UPLOAD? OR DISTRIBUT? OR TRANSFER? OR TRANSMI? OR TRANSCEIV? OR BEAM??? OR PROVID? OR POST??? OR BROADCAST?)
S4	639989	S1(5N) (COMPUT? OR DETERMIN? OR TOTAL? OR TABULAT? OR CALCUL- LAT? OR ESTIMAT? OR PROCESS? OR FIGUR? OR ASSESS? OR ASCRIB? - OR CREAT? OR FORMULAT?)
S5	148710	S4(5N) (BASE? ? OR BASING OR DERIV? OR APPROX? OR CORRELAT? OR DEPEND? OR SIMILAR? OR COMPAR? OR CORRESPOND?)
S6	60512	S4:S5(5N) (WEIGH? OR IMPORT? OR MEASUR? OR RELEVAN? OR WORT- H? OR SIGNIFICA? OR BEARING? OR CONCERN? OR GIST? ? OR INTERE- ST?)
S7	367442	S4:S5(5N) (SENSE? OR USEFUL? OR VALUE? OR PRIORIT? OR GRAVI- TY OR POINT? ? OR INFLUEN? OR STRESS? OR RANK??? ? OR SALIEN? OR NOTEWORTH?)
S8	346098	S1(5N) (EQUAL? OR AT()LEAST OR COMPARABL? OR IDENTICAL? OR - EQUIVALEN? OR SAME OR SIMILAR? OR APPROX?)
S9	5	S1(5N) (COLLABORAT?(5N) (FILTER? OR FILTR?))
S10	287721	S1(5N) (MERG??? OR FUSE? ? OR FUSING OR UNIFY? OR UNIFIE? ? OR SYNTHESI? OR HYBRID? OR COMBIN? OR INTEGRAT? OR INCLU? OR - INCORPORAT? OR CONSOLIDAT? OR SEMANT?)
S11	204262	S1(5N) (UPDAT? OR UP() (DATE? ? OR DATING) OR UPGRAD? OR REV- IS? OR MODIF? OR CHANG? OR ENHANC? OR ALTER?)
S12	697069	S1(3N) (ONE OR 1 OR FIRST OR 1ST OR PRIMARY OR INITIAL? OR - ORIGINAL? OR MAIN OR REFER? OR SOURC?)
S13	476528	S1(3N) (SECOND??? OR 2ND OR 2 OR ANOTHER? OR TWO OR DIFFERE- NT OR ADDITIONAL OR MORE(2N)ONE OR REMOTE?)
S14	196150	S2:S3 AND S4
S15	43535	S14 AND S5 AND S6:S7
S16	12443	S15 AND S8
S17	4472	S16 AND S9:S10
S18	4471	S17 AND S10:S11
S19	2462	S18 AND S12 AND S13
S20	23	S19 AND (RATE ? ? OR RATING?)
S21	50698	S12(5N) (MERG??? OR FUSE? ? OR FUSING OR UNIFY? OR UNIFIE? ? OR SYNTHESI? OR HYBRID? OR COMBIN? OR INTEGRAT? OR INCLU? OR INCORPORAT? OR CONSOLIDAT?)
S22	28837	S12(5N) (UPDAT? OR UP() (DATE? ? OR DATING) OR UPGRAD? OR RE- VIS? OR MODIF? OR CHANG? OR ENHANC? OR ALTER?)
S23	36307	S21:S22 AND S13
S24	10	S23 AND (COLLABORAT? OR INTERACT?) (5N) (FILTER? OR FILTR?)
S25	9	S24 NOT S20

File 350:Derwent WPIX 1963-2007/UD=200773

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File 347:JAPIO Dec 1976-2007/Jun(Updated 070926)

(c) 2007 JPO & JAPIO

20/69,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0016992689 - Drawing available
WPI ACC NO: 2007-707753/200766
Related WPI Acc No: 2002-691046; 2003-128214; 2004-446997
XRPX Acc No: N2007-556840

Product e.g. integrated services digital network product, rating system for interactive product selection/recommendation, has processor rating product according to need of user based on equation stored on computer readable medium

Patent Assignee: CONVERGYS CMG UTAH INC (CONV-N)
Inventor: CHAN W W; ERICKSON C R; GHEITH A; MANCISIDOR R
Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 20070208682	A1	20070906	US 2000219783	P	20000719	200766 B
			US 2000241541	P	20001018	
			US 2001764662	A	20010118	
			US 2001909250	A	20010719	
			US 2007746767	A	20070510	

Priority Applications (no., kind, date): US 2000219783 P 20000719; US 2000241541 P 20001018; US 2001764662 A 20010118; US 2001909250 A 20010719; US 2007746767 A 20070510

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20070208682	A1	EN	24	12	Related to Provisional US 2000219783 Related to Provisional US 2000241541 Continuation of application US 2001764662 Continuation of application. US 2001909250

Alerting Abstract US A1

NOVELTY - The system has a value obtaining unit for obtaining multiple values using multiple operations performed on a fuzzy set representing the need of a user and another fuzzy set representing the trait of a product comprising a service. A product database stores information regarding the product. A computer readable medium stores an equation comprising variables corresponding to the values. A processor rates the product with respect to the need of the user represented by the former fuzzy set based on the equation stored on the computer readable medium.

USE - Used for interactive product selection/recommendation of integrated services digital network (ISDN) product in industry that sells and provides services using expert system through computer network e.g. local area network (LAN).

ADVANTAGE - The system allows for the use of agents of varying skill levels, including relatively low skill level, without suffering deleterious performance. The expert system allows the agent to provide real time interaction with a customer and to provide a real time recommended solution to the customer. The system allows a novice agent to service the customer needs without requiring a high skill level or up-front training.

DESCRIPTION OF DRAWINGS - The drawing shows a schematic view of the product rating system.

Title Terms/Index Terms/Additional Words: PRODUCT; INTEGRATE; SERVICE;

DIGITAL; NETWORK; **RATING** ; SYSTEM; INTERACT; SELECT; PROCESSOR; ACCORD;
NEED; USER; BASED; EQUATE; STORAGE; COMPUTER; READ; MEDIUM

Class Codes

International Classification (+ Attributes)

IPC + Level Value Position Status Version

G06N-0005/04 A I F B 20060101

G06N-0005/00 C I B 20060101

US Classification, Issued: 706060000

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): T01-J05B4P; T01-J16A; T01-J16B; T01-M02A1;

T01-N02A2A

Product e.g. integrated services digital network product, **rating system** for interactive product selection/recommendation, has processor rating product according to need of user based on equation stored on computer readable medium

Alerting Abstract ...NOVELTY - The system has a **value obtaining** unit for obtaining multiple **values** using multiple operations performed on a fuzzy set representing the need of a user and...

...database stores information regarding the product. A computer readable medium stores an equation comprising variables **corresponding** to the **values**. A **processor** rates the product with respect to the need of the user represented by the former...

...DESCRIPTION OF DRAWINGS - The drawing shows a schematic view of the product **rating system**.

Title Terms.../Index Terms/Additional Words: **RATING** ;

Original Publication Data by Authority

Original Abstracts:

...high skill level or up-front training that is often at the expense of the **provider** seeking to **market** its products and/or services.

Claims:

What is claimed: **1** . A system for **rating** a product based on a need of a user and a trait of: the product, the system comprising:a) means for **obtaining** a plurality of **values** using a plurality of set operations performed on a first fuzzy set representing the need...

...the product;b) a computer readable medium having stored thereon an equation, said equation comprising **at least two** variables corresponding to **values** from said plurality of **values** ;c) a **processor** configured to rate said product with respect to the need of the user represented by...

20/69,K/4 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0015728422 - Drawing available
WPI ACC NO: 2006-290312/200630
Related WPI Acc No: 2006-134458
XRPX Acc No: N2006-247269

Method for searching information objects in repository, involves finding identifiers for information objects that correspond to expanded query, and calculating relevance score for each identified information object

Patent Assignee: VIGNETTE CORP (VIGN-N)
Inventor: FREED D; KENNEDY D P; KOMMERS J M
Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 7028024	B1	20060411	US 2001682107	A	20010720	200630 B

Priority Applications (no., kind, date): US 2001682107 A 20010720

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 7028024	B1	EN	13	5	

Alerting Abstract US B1

NOVELTY - An original query received from client computer is expanded to an expanded query, and database is searched using expanded query. The identifiers are found for information objects that correspond to the expanded query, and a **relevance score** is **calculated** for each identified information object. The identified objects are sorted based on relevance score, and the sorted information objects are sent to client computer.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- 1.data processing system readable medium having code including instructions for searching information objects;
- 2.data processing system implemented method of formulating query; and
- 3.data processing system readable medium having code including instructions for formulating query.

USE - For searching information object such as documents from repository, in information retrieval system.

ADVANTAGE - Automatically expands the scope of the original query to include keywords with related meanings. Enables saving valuable money and human resources, since the need for cross-link system is eliminated.

DESCRIPTION OF DRAWINGS - The figure shows an illustration of hierarchy of keywords, and flow diagram for adding keywords and information objects to a database.

302,312,314,316,321,322,323,326,327,328,332,334,336 nodes
310,320,330 data lines

Title Terms/Index Terms/Additional Words: METHOD; SEARCH; INFORMATION;
OBJECT; REPOSITORY; FINDER; IDENTIFY; CORRESPOND; EXPAND; QUERY;
CALCULATE; RELEVANT; SCORE

Class Codes

International Classification (+ Attributes)
IPC + Level Value Position Status Version

G06F-0017/30 A I F B 20060101
US Classification, Issued: 707003000, 707102000, 707104100

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): T01-J05B4; T01-N01A2H; T01-N03A2

Method for searching information objects in repository, involves finding identifiers for information objects that correspond to expanded query, and calculating relevance score for each identified information object

...The identifiers are found for information objects that correspond to the expanded query, and a relevance score is calculated for each identified information object. The identified objects are sorted based on relevance score, and...

Original Publication Data by Authority

Claims:

...method of searching for a plurality of information objects comprising:receiving a first query;automatically determining an association score between each keyword within the first query and each keyword within a second query based at least in part upon their positions within a hierarchy of keywords associated with the plurality information...

...the second query, wherein the first information object is part of the plurality of information objects ; and calculating a first relevance score for the first information object, wherein: at least one first relevancy rating is obtained for the first information object ;the first relevance score includes a first sum divided by a number of keywords within the second query;the first sum includes a first summation of first products ; and for each keyword within the second query, its first product includes a corresponding first association score and a corresponding first relevance rating.>

20/69,K/8 (Item 8 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0014681008 - Drawing available
WPI ACC NO: 2005-028591/200503
Related WPI Acc No: 2004-783125
XRPX Acc No: N2005-024631

Product e.g. goods and services, offer and quote matching medium, has instructions to receive offer for product from customer, where offer is matched with most-preferentially ranked supplier

Patent Assignee: EXPEDIA INC (EXPE-N)
Inventor: BOGDANOVIC M; HARFORD B M; HECTOR C; WIDJAJA S
Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 6826543	B1	20041130	US 2000648124	A	20000825	200503 B

Priority Applications (no., kind, date): US 2000648124 A 20000825

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 6826543	B1	EN	22	19	

Alerting Abstract US B1

NOVELTY - The medium has instructions for receiving an offer for a product from a customer. A set of suppliers provides quotes for the product, each quote has a price at which a related supplier is prepared to provide the product and a rating related to the product criterion. The suppliers are ranked based on the criterion and the price related to the quotes. The offer is matched with a most-preferentially ranked supplier.

USE - Used for matching a product e.g. goods and services, offered by a customer with a quote from a supplier in an electronic exchange transaction e.g. purchase of a travel accommodation such as hotel room or airline ticket.

ADVANTAGE - The offer is matched with the most-preferentially ranked supplier, thus realizing a much high rate for the goods or services even though the supplier provides low rate quotes to win the offer. The medium supplies incentives to the customers for providing higher offers for the goods or services.

DESCRIPTION OF DRAWINGS - The drawing shows a logical flow diagram generally illustrating a process for booking accommodations with a hotel having been identified as a winner.

Title Terms/Index Terms/Additional Words: PRODUCT; GOODS; SERVICE; OFFER; MATCH; MEDIUM; INSTRUCTION; RECEIVE; CUSTOMER; PREFER; RANK; SUPPLY

Class Codes

International Classification (Main): G06F-017/60
US Classification, Issued: 705037000, 705005000, 705402000, 707003000

File Segment: EPI;
DWPI Class: T01
Manual Codes (EPI/S-X): T01-N01A2A; T01-S03

...the product, each quote has a price at which a related supplier is prepared to provide the product and a rating related to the product criterion. The suppliers are ranked based on the criterion and the...

Original Publication Data by Authority

Claims:

...an offer from a customer for a product, the product being subject to a criterion; **calculating a first value**, based on the offer, above which a **quote** for the **product** is not economically desirable; **calculating a second value** based on the offer that reflects a desired margin; **obtaining from a plurality of suppliers at least one quote** for the product, each quote including a price at which a corresponding supplier is prepared to **provide** the product and **including a rating** associated with the criterion of the particular product **quoted** by the corresponding **supplier**; discarding **from** the plurality of suppliers those suppliers that do not **provide** a quote below the **first value**; for those suppliers for which the one quote falls between the **first value** and the **second value**, **ranking** each supplier in the plurality of suppliers based on **one quote provided** by the suppliers, wherein the **suppliers are ranked** based on the price associated with the one quote provided by the suppliers; for those suppliers for which the **one quote** falls below the **second value**, **ranking** each **supplier** based on the one quote **provided**, wherein the suppliers are **ranked** based upon the criterion; and **matching the offer** with a most-preferentially **ranked supplier**.

20/69,K/12 (Item 12 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0012787736 - Drawing available
WPI ACC NO: 2002-643052/200269
Related WPI Acc No: 2004-202693
XRPX Acc No: N2002-508372

Item list generating method in Internet-based information search system, involves computing probability of relevance for each item, using received statistical class models and request data

Patent Assignee: RECOMMIND INC (RECO-N)

Inventor: HOFMANN T; PUZICHA J C

Patent Family (2 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 20020107853	A1	20020808	US 2000220926	P	20000726	200269 B
			US 2001915755	A	20010726	
US 6687696	B2	20040203	US 2001915755	A	20010726	200413 E

Priority Applications (no., kind, date): US 2000220926 P 20000726; US 2001915755 A 20010726

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20020107853	A1	EN	27	15	Related to Provisional US 2000220926

Alerting Abstract US A1

NOVELTY - A set of statistical class models with model combination weights, combination of items and user attributes, actual user profile, user query, and request to generate a recommendation list, are received consecutively. Recommendation list having variable length and ranked list of desired items, is generated based on probability of relevance computed for each item using received models and data.

DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- 1.Class model data processing method;
- 2.Item data analyzing method; and
- 3.Personalized search engine system.

USE - For generating recommendation list of desired items or information in Internet-based information search system and for e-mail/text sorting in intelligent routing for customer relationship management (CRM), distributed networking, storage, e-market places and web application server environment.

ADVANTAGE - Results that clearly match the criteria of the search, are obtained.

DESCRIPTION OF DRAWINGS - The figure shows a flowchart of item list generation.

Title Terms/Index Terms/Additional Words: ITEM; LIST; GENERATE; METHOD; BASED; INFORMATION; SEARCH; SYSTEM; COMPUTATION; PROBABILITY; RELEVANT; RECEIVE; STATISTICAL; CLASS; MODEL; REQUEST; DATA

Class Codes

International Classification (Main): G06F-017/30, G06F-007/00
US Classification, Issued: 707007000, 707006000, 707004000

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): T01-E01A; T01-J05B1; T01-N01C; T01-N03A2

Alerting Abstract ...system and for e-mail/text sorting in intelligent routing for customer relationship management (CRM), **distributed** networking, storage, e- **market** places and web **application** server environment.

Original Publication Data by Authority

Original Abstracts:

...to be searched, user profiles, demographic information, query logs of previous searches, and explicit user **ratings** of items. The **disclosed** system learns **one** or **more** statistical **models** based on available data. The learning may be reiterated once additional data is available. The statistical model...

...to be searched, user profiles, demographic information, query logs of previous searches, and explicit ~~user ratings~~ of items. The disclosed system learns **one** or **more** statistical models based on available data. The learning may be reiterated once additional data is...

Claims:

...data including items, content descriptors for the items, user profiles about transactions, prior searches, ~~user ratings~~ or user actions, to generate a recommendation list of desired items, comprising the following steps:receiving into the recommendation...

...user query; and a request to generate at least one recommendation list, items in the **recommendation list** being **ranked** by their likelihood of being the desired **items**; **computing** a probability of **relevance** for each item in the set of data utilizing the received set of models and data;returning at least one recommendation list, each recommendation list having a variable length and **consisting** of a **ranked** list of desired items, the items being **ranking** based on the **computed** probability of **relevance** .

...

...in the form of a list of tuples of entities;receiving a list of parameters, **including** a **number** of dimensions to be used in the model training, a predetermined termination condition, and a predetermined fraction of hold out data;splitting the dataset **into** training **data** and hold out data according to the predetermined fraction of hold out data;applying Tempered

20/69,K/13 (Item 13 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0010774985 - Drawing available
WPI ACC NO: 2001-389512/200141
Related WPI Acc No: 2002-361441
XRPX Acc No: N2001-286530

Rating system for television program, has central engine module that determines virtual stock price according to placed number of orders, such that rating is partially determined based on stock price

Patent Assignee: EYESCENE INC (EYES-N)

Inventor: KOHEN O

Patent Family (4 patents, 92 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
WO 2001001308	A2	20010104	WO 2000US17437	A	20000626	200141 B
AU 200057652	A	20010131	AU 200057652	A	20000626	200141 E
US 6604239	B1	20030805	US 1999339863	A	19990625	200353 E
EP 1573607	A2	20050914	EP 2000943135	A	20000626	200560 E
			WO 2000US17437	A	20000626	

Priority Applications (no., kind, date): US 1999339863 A 19990625

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
WO 2001001308	A2	EN	33	3	
National Designated States,Original: AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW					
Regional Designated States,Original: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW					
AU 200057652	A	EN			Based on OPI patent WO 2001001308
EP 1573607	A2	EN			PCT Application WO 2000US17437
Based on OPI patent WO 2001001308					
Regional Designated States,Original: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE					

Alerting Abstract WO A2

NOVELTY - A central engine module (18) receives an order from a user for the virtual stock, determines the amount of virtual stock and virtual currency in a user log, and determines the virtual stock price according to the number of orders being placed for the virtual stock. The determined price of the virtual stock is partially used to determine the rating.

DESCRIPTION - The central engine module is connected to a television program stock value module (20) and a user interface (12). The television program stock value module stores the price of the virtual stock. The user interface displays the amount of virtual stock and virtual currency to a user. The stocks and currency are stored in a user log module. INDEPENDENT CLAIMS are also included for the following:

- 1.a method for rating a television program as a virtual stock by the user;
- 2.a method for playing an interactive game for promoting a television related feature to a user through a graphical user interface displayed on a display screen;
- 3.a method for rating a content, selected from the group consisting of a television program, a book, a piece of music, a theater show, a work

of art, and a Web site, as a virtual stock by the user;

4.and a method for displaying an electronic programming guide.

USE - Used for **rating** a virtual television program as a virtual stock by a user.

ADVANTAGE - Provides an interactive environment for the users which enables focused **rating** information to be gathered from the users about various types of **contents** e.g. television program, books, works of art, theater shows.

DESCRIPTION OF DRAWINGS - The figure shows the block diagram of the virtual television program **rating** system.

12 User interface

18 Central engine module

20 Television program stock value module

Title Terms/Index Terms/Additional Words: **RATING** ; SYSTEM; TELEVISION; PROGRAM; CENTRAL; ENGINE; MODULE; DETERMINE; VIRTUAL; STOCK; PRICE; ACCORD; PLACE; NUMBER; ORDER; BASED

Class Codes

International Classification (+ Attributes)

IPC + Level Value Position Status Version

G06Q-0030/00 A I R 20060101

G06Q-0030/00 C I R 20060101

US Classification, Issued: 725013000, 725087000, 725135000, 725093000, 725029000, 725032000, 705027000, 705036000, 705038000, 705051000, 705052000

File Segment: EPI;

DWPI Class: T01; T05; W01

Manual Codes (EPI/S-X): T01-H01C2; T01-H07C3C; T01-J05A1; T01-J12; T01-J12C ; T05-L02; W01-C05B3C

Rating system for television program, has central engine module that determines virtual stock price according to placed number of orders, such that rating is partially determined based on stock price

Original Titles:

...SYSTEM AND METHOD FOR VIRTUAL TELEVISION PROGRAM **RATING**
...

...System and method for virtual television program **rating**
...

...SYSTEM AND METHOD FOR VIRTUAL TELEVISION PROGRAM **RATING**

Alerting Abstract ...for the virtual stock. The determined price of the virtual stock is partially used to **determine** the **rating**a method for **rating** a television program as a virtual stock by the user; a method for playing an interactive game for promoting...

...a user through a graphical user interface displayed on a display screen; a method for **rating** a content, selected from the group consisting of a television program, a book, a piece of music, a theater show, a work of...
...USE - Used for **rating** a virtual television program as a virtual stock by a user.
...

...ADVANTAGE - Provides an interactive environment for the users which enables focused **rating** information to be gathered from the users about

various types of contents e.g. television program, books, works of art, theater shows...

...DESCRIPTION OF DRAWINGS - The figure shows the block diagram of the virtual television program rating system.

Title Terms/Index Terms/Additional Words: RATING ;

Original Publication Data by Authority

Original Abstracts:

A method and a system for combining at least two sources of television program rating information, including at least one source obtained through user input into an electronic interface, to provide a more accurate and focused rating for a particular television program. The source of rating information which is obtained through an electronic interface is preferably obtained through the active interaction of the user with a Web browser, for...

...a combination thereof. The advantage of such active interaction is that the user wants to provide the rating information, thereby requiring more involvement by the user than merely passively viewing a television program. Such a system and method is also useful for rating advertisements, for which passive rating methods may not be as effective. Furthermore, more precise demographic information can be obtained through such an interaction with the Web...

...programs more effectively. Thus, the system and method of the present invention is useful for providing more accurate and specific rating information for television programs and advertisements, as well as for promoting these television programs and advertisements...

...A method and a system for combining at least two sources of television program rating information, including at least one source obtained through user input into an electronic interface, to provide a more accurate and focused rating for a particular television program. The source of rating information which is obtained through an electronic interface is preferably obtained through the active interaction of the user with a Web browser, for example through an applet or a Web page, or a combination thereof. The advantage of such active interaction is that the user wants to provide the rating information, thereby requiring more involvement by the user than merely passively viewing a television program. Such a system and method is also useful for rating advertisements, for which passive rating methods may not be as effective. Furthermore, more precise demographic information can be obtained through such an interaction with the Web browser, since the user can be requested to...

...programs more effectively. Thus, the system and method of the present invention is useful for providing more accurate and specific rating information for television programs and advertisements, as well as for promoting these television programs and advertisements...

...A method and a system for combining at least two sources of television program rating information, including at least one source obtained through user input into an electronic interface, to provide a more accurate and focused rating for a particular

television program. The source of rating information which is obtained through an electronic interface is preferably obtained through the active interaction of the user with a Web browser, for example through an applet or a Web page, or a combination thereof. The advantage of such active interaction is that the user wants to provide the rating information, thereby requiring more involvement by the user than merely passively viewing a television program. Such a system and method is also useful for rating advertisements, for which passive rating methods may not be as effective. Furthermore, more precise demographic information can be obtained through such an interaction with the Web browser, since the user can be requested to enter such precise information...

...programs more effectively. Thus, the system and method of the present invention is useful for providing more accurate and specific rating information for television programs and advertisements, as well as for promoting these television programs and advertisements.

Claims:

What is claimed is: 1 . A system for rating a television program as a virtual stock by a user, the system comprising: (a) a user log module for storing an amount...

...program stock value module for storing a price of the virtual stock, said price of the virtual stock determining the rating ; (d) an independent rating information module for providing independent rating information about the television program; and (e) a central engine connected to said independent rating module, said television program stock value module and said user interface, for receiving an order from the user for the virtual stock, for determining said amount of the virtual stock and said amount of said virtual currency in said user log , and for combining said independent rating information and a number of orders for the virtual stock to determine said price of the virtual stock.

20/69,K/17 (Item 17 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0009592441 - Drawing available
WPI ACC NO: 1999-540929/199945
Related WPI Acc No: 2002-415076; 2005-570602; 2006-220604; 2006-371478;
2007-475091

XRFX Acc No: N1999-400876

Items in search result ranking used in computer system especially
useful in conjunction with large, heterogeneous query results that are
typically generated for single-term queries submitted by users

Patent Assignee: AMAZON.COM INC (AMAZ-N)

Inventor: BOWMAN D; LINDEN G; ORTEGA R E; SPIEGEL J R

Patent Family (12 patents, 82 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
WO 1999045487	A1	19990910	WO 1998US26985	A	19981218	199945	B
AU 199919290	A	19990920	AU 199919290	A	19981218	200007	E
EP 1060449	A1	20001220	EP 1998964094	A	19981218	200105	E
			WO 1998US26985	A	19981218		
US 6185558	B1	20010206	US 199833824	A	19980303	200109	E
			US 199841081	A	19980310		
JP 2002506256	W	20020226	WO 1998US26985	A	19981218	200219	E
			JP 2000534960	A	19981218		
AU 757550	B	20030227	AU 199919290	A	19981218	200321	E
NZ 506229	A	20030228	NZ 506229	A	19981218	200323	E
			WO 1998US26985	A	19981218		
EP 1060449	B1	20030625	EP 1998964094	A	19981218	200349	E
			WO 1998US26985	A	19981218		
DE 69815898	E	20030731	DE 69815898	A	19981218	200357	E
			EP 1998964094	A	19981218		
			WO 1998US26985	A	19981218		
MX 2000008603	A1	20020101	WO 1998US26985	A	19981218	200362	E
			MX 20008603	A	20000901		
CA 2320293	C	20040803	CA 2320293	A	19981218	200452	E
			WO 1998US26985	A	19981218		
IN 200000299	P3	20050715	WO 1998US26985	A	19981218	200574	E
			IN 2000MN299	A	20000816		

Priority Applications (no., kind, date): US 199833824 A 19980303; US
199841081 A 19980310

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
WO 1999045487	A1	EN	35	9	
National Designated States,Original: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW					
Regional Designated States,Original: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW					
AU 199919290	A	EN			Based on OPI patent WO 1999045487
EP 1060449	A1	EN			PCT Application WO 1998US26985
					Based on OPI patent WO 1999045487
Regional Designated States,Original: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE					
US 6185558	B1	EN			C-I-P of application US 199833824
JP 2002506256	W	JA	41		PCT Application WO 1998US26985
					Based on OPI patent WO 1999045487
AU 757550	B	EN			Previously issued patent AU 9919290

NZ 506229	A	EN	Based on OPI patent	WO 1999045487
			PCT Application	WO 1998US26985
EP 1060449	B1	EN	Based on OPI patent	WO 1999045487
			PCT Application	WO 1998US26985
			Based on OPI patent	WO 1999045487
Regional Designated States, Original:			AT BE CH CY DE DK ES FI FR GB GR IE	
			IT LI LU MC NL PT SE	
DE 69815898	E	DE	Application	EP 1998964094
			PCT Application	WO 1998US26985
			Based on OPI patent	EP 1060449
			Based on OPI patent	WO 1999045487
MX 2000008603	A1	ES	PCT Application	WO 1998US26985
			Based on OPI patent	WO 1999045487
CA 2320293	C	EN	PCT Application	WO 1998US26985
			Based on OPI patent	WO 1999045487
IN 200000299	P3	EN	PCT Application	WO 1998US26985

Alerting Abstract WO A1

NOVELTY - The method involves using a compiled data to **rank at least** a portion of the items identified in the received search result. It is performed in accordance with the extent to which users have selected each of the **number** of items identified in the **received** search result when returned in search results produced from queries containing the search term contained in the received query.

DESCRIPTION - INDEPENDENT CLAIMS are **included** for: a **computer** system for **ranking** items in search result and a computer memory containing a user behavior data structure usable to rank the relevance of items in a query result.

USE - In field of query processing in applications related to World Wide Web sites that permit users to perform searches to identify a small number of interesting items among a much larger domain of items.

ADVANTAGE - Permits users to search for particular products among all of the products that can be purchased from a merchant. Dynamics book to select it more easily useful in conjunction with the large, heterogeneous query results that are typically generated for single-term queries, which are commonly submitted by users

DESCRIPTION OF DRAWINGS - The drawing is a flow diagram showing the steps preformed by the facility in order to generate a new **rating** table.

Title Terms/Index Terms/Additional Words: ITEM; SEARCH; RESULT; RANK; COMPUTER; SYSTEM; USEFUL; CONJUNCTION; HETEROGENEOUS; QUERY; TYPICAL; GENERATE; SINGLE; TERM; SUBMIT; USER

Class Codes

International Classification (Main): G06F-017/30, G06F-017/60

International Classification (+ Attributes)

IPC + Level Value Position Status Version

G06F-0017/30 A I R 20060101

G06Q-0030/00 A I R 20060101

G06F-0017/30 C I R 20060101

G06Q-0030/00 C I R 20060101

US Classification, Issued: 707005000, 705007000, 705037000

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): T01-J05B3

Items in search result ranking used in computer system especially useful in conjunction with large, heterogeneous query results that are

typically generated for single-term queries...

Alerting Abstract ...NOVELTY - The method involves using a compiled data to rank at least a portion of the items identified in the received search result. It is performed in accordance with the extent to which users have selected each of the number of items identified in the received search result when returned in search results produced from queries containing the search term contained...

DESCRIPTION - INDEPENDENT CLAIMS are included for: a computer system for ranking items in search result and a computer memory containing a user behavior data structure usable...

...flow diagram showing the steps preformed by the facility in order to generate a new rating table.

Original Publication Data by Authority

Original Abstracts:

...result identifying a plurality of items that satisfy the query. The facility then produces a ranking value for at least a portion of the items identified in the query result by combining the relative frequencies...

...result identifying a plurality of items that satisfy the query. The facility then produces a ranking value for at least a portion of the items identified in the query result by combining the relative frequencies...

...result identifying a plurality of items that satisfy the query. The facility then produces a ranking value for at least a portion of the items identified in the query result by combining the relative frequencies...

Claims:

...A computer - based method for ranking items in a current search result, the method comprising: for each of a multiplicity of search terms, compiling (201 to 208) data (300) into a common rating table indicating the extent to which a plurality of previous users have selected each of...

...search result identifying a plurality of items among the multiplicity of items that satisfy the received current query; and ranking (801 to 808), using the data (300) compiled in said common rating table, at least a portion of the items identified in the received current search result in accordance with...

...A method in a computer system for ranking items in a search result, the method comprising: receiving a rating set of queries, each query in the rating set specifying one or more terms; for each query in the rating set, generating a query result identifying one or more items satisfying the query; allowing a...

...item selected from the query result, for each term specified by the query, increasing a rating value corresponding to the combination of the selected item and the term specified by the query, the rating value indicating a relative frequency with which users have selected the selected item when the...

...the distinguished query; and for each item identified in the distinguished query result, for the rating values corresponding to the combination of the item identified in the distinguished query result and

one of the terms specified by the distinguished query, **combining** these **rating values** to generate a ranking value for the item within the distinguished query result.

20/69,K/18 (Item 18 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0009284782 - Drawing available
WPI ACC NO: 1999-214394/199918
Related WPI Acc No: 1998-446517
XRPX Acc No: N1999-157797

Stem selection method for recommendation to users

Patent Assignee: ROBINSON G B (ROBI-I)

Inventor: ROBINSON G B

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 5884282	A	19990316	US 1997838233	A	19970415	199918 B
			US 1997848317	A	19970430	
			US 199858445	A	19980409	

Priority Applications (no., kind, date): US 1997838233 A 19970415; US 1997848317 A 19970430; US 199858445 A 19980409

Patent Details.

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 5884282	A	EN	31	7	C-I-P of application US 1997838233
					Continuation of application US 1997848317.
					Continuation of patent US 5790426

Alerting Abstract US A

NOVELTY - The range of randomized transformed ratings data is computed which is used in combination with transformed ratings data to determine test statistics. The similarity value is determined from the test statistics for one user with respect to, other user.

DESCRIPTION - The ratings data which is obtained for some of the items, from various users includes information about overall ratings distribution for the item. A common item regarding ratings data provided by two users is located, and that ratings data is transformed to obtain transformed ratings data. An INDEPENDENT CLAIM is included for item selection system.

USE - For recommendation of items to users based on preference similarities.

ADVANTAGE - Provides recommendations with statistically meaningful confidence levels by determining similarity value of preferences of users.

DESCRIPTION OF DRAWINGS - The figure shows exemplary flow chart of item selection process.

Title Terms/Index Terms/Additional Words: STEM; SELECT; METHOD; USER

Class Codes

International Classification (+ Attributes)

IPC + Level Value Position Status Version

G06F-0017/30 A I R 20060101

G06F-0017/30 C I R 20060101

US Classification, Issued: 705027000, 705012000, 705026000, 707010000, 707102000, 395200320

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): T01-J05B1; T01-J08B; T01-S01B

Alerting Abstract ...NOVELTY - The range of randomized transformed ratings data is computed which is used in combination with transformed ratings data to determine test statistics. The similarity value is determined from the test statistics for one user with respect to, other user. DESCRIPTION - The ratings data which is obtained for some of the items, from various users includes information about overall ratings distribution for the item. A common item regarding ratings data provided by two users is located, and that ratings data is transformed to obtain transformed ratings data. An INDEPENDENT CLAIM is included for item selection system...

...ADVANTAGE - Provides recommendations with statistically meaningful confidence levels by determining similarity value of preferences of users...

Original Publication Data by Authority

Original Abstracts:

...similarity in preference of the user as compared with other users. The ACF system stores rating data for items provided by users of the system. Upon request of the first user, the system determines similarity values for the first user as compared with other users that have provided rating data for items that the first user has also rated. Based on the similarity values, a subgroup of users is selected that is then used to provide recommendations to the first user.

Claims:

...items to recommend to a first user of a plurality of users, the method comprising: obtaining ratings data for at least some of the items in the plurality of items from first ones of the plurality of users, wherein the ratings data for each of the respective items includes information about the overall ratings distribution for the item; locating a first common item that the first user and a second user in the plurality of users have provided ratings data for; transforming the ratings data for the first common item from the ratings data for the first common item provided by the first ones of the plurality of users to provide first transformed ratings data; computing a range of randomized transformed ratings data for the first common item from the ratings data for the first common item provided by the first ones of the plurality of users; determining a test statistic for the first common item from the first transformed ratings data and the range of randomized transformed ratings data; and determining a similarity value from the test statistic for the first user with respect to the second user.>

20/69,K/21 (Item 21 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0007964343 - Drawing available
WPI ACC NO: 1997-054883/199706
Related WPI Acc No: 1998-506965
XRPX Acc No: N1997-044971

Item recommendation method for one of several users on Internet - involves selecting set of neighbouring users on basis of calculated similarities and predicting rating for item

Patent Assignee: MASSACHUSETTS INST TECHNOLOGY (MASI); MICROSOFT CORP (MICR-N)

Inventor: BERGH C P; CHISLENKO A; LASHKARI Y; LASHKARI Y Z; MAES P; MCNULTY J E; METRAL M E; RITTER D H; SHARDANAND U; SHEENA J A; SULLIVAN J J; TIU D D

Patent Family (8 patents, 70 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
EP 751471	A1	19970102	EP 1996304536	A	19960618	199706 B
WO 1997002537	A1	19970123	WO 1996US10492	A	19960618	199710 E
AU 199662825	A	19970205	AU 199662825	A	19960618	199721 E
JP 11509019	W	19990803	WO 1996US10492	A	19960618	199941 E
US 6041311	A	20000321	JP 1997505156	A	19960618	
			US 1995598	P	19950630	200021 E
			US 19958458	P	19951211	
			US 1996597442	A	19960202	
			US 1997789758	A	19970128	
US 6049777	A	20000411	US 1995598	P	19950630	200025 E
			US 19958458	P	19951211	
			US 1996597442	A	19960202	
			US 1997818515	A	19970314	
US 6092049	A	20000718	US 1995598	P	19950630	200037 E
			US 19958458	P	19951211	
			US 1996597442	A	19960202	
			US 1997818533	A	19970314	
US 6112186	A	20000829	US 1995598	P	19950630	200043 E
			US 19958458	P	19951211	
			US 1996597442	A	19960202	
			US 1997828631	A	19970331	

Priority Applications (no., kind, date): US 1997828631 A 19970331; US 1997818533 A 19970314; US 1997818515 A 19970314; US 1997789758 A 19970128; US 19958458 P 19951211; US 1995598 P 19950630; US 1996597442 A 19960202

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
EP 751471	A1	EN	23	4	
Regional Designated States,Original: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE					
WO 1997002537	A1	EN	45	4	
National Designated States,Original: AL AM AT AU AZ BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU IL IS JP KE KG KP KR KZ LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG UZ VN					
Regional Designated States,Original: AT BE CH DE DK EA ES FI FR GB GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG					
AU 199662825	A	EN			Based on OPI patent WO 1997002537
JP 11509019	W	JA	49		PCT Application WO 1996US10492
					Based on OPI patent WO 1997002537
US 6041311	A	EN			Related to Provisional US 1995598

US 6049777	A	EN	Related to Provisional US 19958458 C-I-P of application US 1996597442
US 6092049	A	EN	Related to Provisional US 1995598 Related to Provisional US 19958458 C-I-P of application US 1996597442
US 6112186	A	EN	Related to Provisional US 1995598 Related to Provisional US 19958458 C-I-P of application US 1996597442

Alerting Abstract EP A1

The item recommendation method involves storing a profile for each of several users in a memory. Some of the values represent a **rating** given to items by a user. An item profile is stored in a memory for each of several items. Several similarity factors are calculated between different users.

Several neighbouring users are selected for each user on the basis of the similarity factors. A weight is assigned to each of the neighbouring users. An item is recommended to one of the users on the basis of the weights assigned to the neighbours and the **ratings** they gave an item.

USE/ADVANTAGE - For goods and services, World Wide Web or LAN. **Obtains** opinions from several users on **ratings**. Compares **similarity** of users so as to make it likely that they have similar tastes.

Title Terms/Index Terms/Additional Words: ITEM; METHOD; ONE; USER; SELECT; SET; NEIGHBOURING; BASIS; CALCULATE; PREDICT; **RATING**

Class Codes

International Classification (Main): G06F-017/30, G06F-017/60, G06F-019/00
US Classification, Issued: 705027000, 705007000, 705008000, 705009000,
707102000, 705010000, 705026000, 707103000, 705010000, 705026000,
705010000, 705007000, 705014000

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): T01-J05A2

...involves selecting set of neighbouring users on basis of calculated similarities and predicting rating for item

Alerting Abstract ...profile for each of several users in a memory. Some of the values represent a **rating** given to items by a user. An item profile is stored in a memory for...

...of the users on the basis of the weights assigned to the neighbours and the **ratings** they gave an item...

...USE/ADVANTAGE - For goods and services, World Wide Web or LAN. **Obtains** opinions from several users on **ratings**. Compares **similarity** of users so as to make it likely that they have similar tastes.

Title Terms.../Index Terms/Additional Words: **RATING**

Original Publication Data by Authority

Original Abstracts:

...method for recommending items to users using automated collaborative filtering stores profiles of users relating **ratings** to items in **memory**. Profiles of items are also stored in memory, the item profiles associating

users with the **rating** given to the **item** by that user. **Similarity** factors with respect to other users are calculated for a user, and these similarity factors...

...select a set of neighboring users. The neighboring users are weighted based on their respective **similarity** factors, and a **rating** for an item **contained** in the domain is predicted. In one embodiment, items in the domain have features. In this embodiment, the values for features can be clustered, and the **similarity** factors **incorporate** assigned **feature** weights and feature value cluster weights.

...
...method for recommending items to users using automated collaborative filtering stores profiles of users relating **ratings** to items in memory. **Profiles** of items may also be stored in memory, the item profiles associating users with the **rating** given to the item **by** that user or inferred for the user by the system. The user profiles include additional information relating to **the** user or associated with the **rating** given to an item **by** the user. **Similarity** factors with respect to other users, and confidence factors associated with the similarity factors, are...

...select a set of neighboring users. The neighboring users are weighted based on their respective **similarity** factors, and a **rating** for an item contained in the domain is predicted. In one embodiment, items in the domain have features. In this embodiment, the values for features can be clustered, and the **similarity** factors **incorporate** assigned feature weights and feature value cluster weights.

...
...method for recommending items to users using automated collaborative filtering stores profiles of users relating **ratings** to items in memory. **Profiles** of items may also be stored in memory, the item profiles associating users with the **rating** given to the item **by** that user or inferred for the user by the system. The user profiles include additional information relating to **the** user or associated with the **rating** given to an item **by** the user. Item profiles are **retrieved** to determine which users have rated a particular item. Profiles of those users are **accessed** and the **ratings** are used to **calculate** **similarity** factors with respect to other users. The **similarity** factors, sometimes in connection with confidence factors, are used to select a set of neighboring users. The neighboring users are weighted based on their respective **similarity** factors, and a **rating** for an item contained in the domain is predicted. In one embodiment, items in the domain have features. In this embodiment, the values for features can be clustered, and the **similarity** factors **incorporate** assigned feature weights and feature value cluster weights. In some **embodiments**, item concepts are used to enhance recommendation accuracy...

...storing item profiles and user profiles. The data contained in those profiles is used to **calculate** a number of **similarity** factors representing how closely the preferences of one user correlate with another. The similarity factors are evaluated to select a...

...a particular user. The system assigns a weight to each one of the neighboring users. The system uses the **ratings** given to items by those neighboring users to recommend an item to a user. The system may be distributed, i.e. the system may include a number of nodes connected to a central server. The central server includes a memory element for

storing user profile data and the nodes may be the type ...method for recommending items to users using automated collaborative filtering stores profiles of users relating ratings to items in memory. Profiles of items are also stored in memory, the item profiles associating users with the rating given to the item by that user. Similarity factors with respect to other users are calculated for a user, and these similarity factors are ...

...select a set of neighboring users. The neighboring users are weighted based on their respective similarity factors, and a rating for an item contained in the domain is predicted. In one embodiment, items in the domain have features. In this embodiment, the values for features can be clustered, and the similarity factors incorporate assigned feature weights and feature value cluster weights.

Claims:

...profile in a memory for each of a plurality of users, wherein the user profile includes a plurality of values, each of at least some of the plurality of values representing a rating given to one of a plurality of items by the user;</br> (b) storing an item profile in a memory for each of...

...plurality of items belonging to one of a plurality of groups, wherein the item profile includes a plurality of values, each of at least some of the plurality of values representing a rating given to the item by one of the plurality of users;</br> (c) calculating, for each of the plurality of users, a...

...the plurality of similarity factors representing the similarity between each user and another of the plurality of users based on item ratings for a particular group;</br> (d) selecting, for each of the plurality of users, a plurality of neighboring users with respect to each group...

...of users based on the weights assigned to the user's neighboring users and the ratings given to the unrated item by the user's neighboring users.

...

...for each of the plurality of users, wherein at least one of the user profiles includes a plurality of values, one of the plurality of values representing a rating given to one of a plurality of items by the user and another of the plurality of values representing additional information;(b) calculating, using the machine, for the user, a plurality of similarity factors responsive to both ratings given to items by the user and the additional information, each of the plurality of similarity factors representing a similarity between the user and another one of the plurality of users;(c) selecting, using the machine, for the user, a plurality...

...plurality of users as one of the neighboring users if a difference between the associated similarity factors exceeds a predetermined threshold value;(d) assigning, using the machine, a weight to each of the neighboring users; and(e) recommending, using the machine, at least one of the plurality of items to the user based on the weights assigned to the plurality of neighboring users and ratings given to the plurality of items by the plurality of neighboring users...

.....memory, for each of a plurality of users, wherein the user profile comprises a separate rating value, supplied by a particular one of

the users, for each corresponding one of a plurality of items, said...

...rated by the user; (b) storing an item profile, in the memory, for each of the rated items, wherein the item profile comprises a separate rating value, for a particular one of the items, provided by each one of the plurality of the users, wherein the...

...are distinct from each other; (c) calculating, for each one of the plurality of users and in response to the user and item profiles, a plurality of similarity factors, between said each one user and at...

...neighboring ones of the users has an associated similarity factor which is greater than a first predefined threshold value or, if a confidence factor is associated with the associated similarity factor, both the associated similarity factor is less than the first predefined threshold and the confidence factor exceeds a second predefined threshold value (e) assigning a corresponding weight to each of the neighboring users so as to define a plurality of weights; and (f) recommending at least one of a plurality of the items to said one user in response to the plurality of weights and ratings given to the non-rated item by the neighboring ones of the users...

... In a...

...as to define a plurality of retrieved item profiles, each of said retrieved item profiles includes a plurality of first values, each of the plurality of first values representing a rating given to an associated one of the items by each of a plurality of users; (b) determining from the retrieved item...

...second user has previously rated any of the items; (c) retrieving from memory, using the machine, a corresponding user profile of the first user so as to define a retrieved first user profile; (d) retrieving, from memory, a corresponding user profile of the second user provided the second user has...

...a retrieved second user profile, wherein each of the retrieved first and second user profiles includes a plurality of second values, each of the plurality of second values representing a rating given to one of a plurality of items by a corresponding one of the users; and (e) calculating...

...to the retrieved profiles of the first and second users, wherein the first and second user profiles are distinct from the plurality of item profiles.

... memory, for each of a plurality of users, wherein the user profile comprises a separate rating value, supplied by a particular one of the users, for each corresponding one of a plurality of...

...by the user; (A2) stores an item profile, in the first memory, for each of the rated items, comprises a separate rating value, for a particular one of the items, provided by each one of the plurality of the users, wherein the user profile and the item profile are distinct from each other; and (A3) in response to a request issued by the client computer, accesses rating information from the user and item profiles stored in the first memory and provides the rating information to the client computer; and (B) the client computer comprising: (B1) a processor; and (B2) a second memory, connected to the processor, for storing

computer executable instructions therein; and(B3) wherein the processor, in response to the...

...B3a) issues, in response to interaction with the one user, the request to the server computer for the rating information;(B3b) calculates , for each one of the plurality of users and in response to the rating information received from the server computer , a plurality of similarity factors, between said each one user and at least one other one of the users...

...a plurality of neighboring ones of the users, such that each of the neighboring ones of the users has an associated similarity factor which is greater than a first predefined threshold value or, if a confidence factor is associated with the associated similarity factor , both the associated similarity factor is less the first predefined threshold and the confidence factor exceeds a second predefined threshold value ;(B3d) assigns a corresponding weight to each of the neighboring users so as to define a plurality of weights...

...of the items to said one user in response to the plurality of weights and ratings given to the non-rated item by the neighboring ones of the users.

25/69,K/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0013204010 - Drawing available
WPI ACC NO: 2003-288257/200328
Related WPI Acc No: 2004-570044
XRPX Acc No: N2003-229091

Signal receiver dynamical quantity determination for satellite positioning system, involves combining predictive filter solutions assuming different motion models, based on weights, taking into account suitability of models

Patent Assignee: NOKIA CORP (OYNO); NOKIA MOBILE PHONES LTD (OYNO)

Inventor: SYRJAERINNE P; SYRJARINNE P

Patent Family (4 patents, 28 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
US 20020177951	A1	20021128	US 2001864080	A	20010523	200328	B
EP 1262789	A2	20021204	EP 2002253604	A	20020522	200328	E
JP 2003043129	A	20030213	JP 2002144875	A	20020520	200328	E
US 6732050	B2	20040504	US 2001864080	A	20010523	200430	E

Priority Applications (no., kind, date): US 2001864080 A 20010523

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20020177951	A1	EN	9	2	
EP 1262789	A2	EN			

Regional Designated States, Original: AL AT BE CH CY DE DK ES FI FR GB GR
IE IT LI LT LU LV MC MK NL PT RO SE SI TR
JP 2003043129 A JA 8

Alerting Abstract US A1

NOVELTY - A single point solution provided based on input information obtained from satellite is used to find predictive filter solutions, each assuming different motion model for receiver. The solutions are combined to provide dynamic quantity value, based on weight, taking into account likelihood of suitability of each model based on agreement of the dynamic quantity value with the value indicated by single point solution.

DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

1. apparatus for determining dynamical quantity of signal receiver; and
2. system for determining dynamical quantity of signal receiver.

USE - For determining dynamic quantity e.g. lock bias, position clock drift, velocity, clock jerk and acceleration of receiver of signals from satellites positioning system such as global position system (GPS) and also in navigation applications.

ADVANTAGE - The linear Kalman filters are theoretically optimal and have predictable performance. An extremely simple relationship is established between the measurement vector and the state vector, thus costly matrix operations are avoided and computational costs are reduced. Additional measurement from other positioning systems such as network based systems or sensors such as inertial sensor, can be readily used due to the simple form of measurements given by the single point solution.

DESCRIPTION OF DRAWINGS - The figure shows a block diagram/flow diagram of a two stage interacting multiple model filter apparatus.

Title Terms/Index Terms/Additional Words: SIGNAL; RECEIVE; DYNAMIC;
QUANTITY; DETERMINE; SATELLITE; POSITION; SYSTEM; COMBINATION; PREDICT;

FILTER; SOLUTION; ASSUME; MOTION; MODEL; BASED; WEIGHT; ACCOUNT; SUIT

Class Codes

International Classification (Main): G01C-019/00, G01C-021/00, G01S-001/04, G01S-005/14

(Additional/Secondary): G01C-023/00, G01S-005/02

US Classification, Issued: 701213000, 342357120, 701213000, 701214000, 342352000, 375377000

File Segment: EPI;

DWPI Class: S02; W02; W06

Manual Codes (EPI/S-X): S02-B08C; W02-C03B1A; W06-A03A1

Original Titles:

...Two-stage **interacting** multiple models **filter** for use in a global positioning system...

...Two-stage **interacting** multiple models **filter** for use in a global positioning system

Alerting Abstract ...DESCRIPTION OF DRAWINGS - The figure shows a block diagram/flow diagram of a two stage **interacting** multiple model **filter** apparatus.

Original Publication Data by Authority

Original Abstracts:

...and each assuming a different motion model for the receiver; and combining the plurality of **filter** solutions to provide a **first value** of the **dynamical quantity** based on weights that take into account the likelihood of the suitability of each motion...

...the likelihood determined on the basis of agreement of the first value of the **dynamical quantity** compared with a **second value** of the **dynamical quantity** as indicated by a single-point solution...

...motion model for the receiver; and combining the plurality of filter solutions to provide a **first value** of the **dynamical quantity** based on weights that take into account the likelihood of the...

...the basis of agreement of the first value of the **dynamical quantity** compared with a **second value** of the **dynamical quantity** as indicated by a **single -point** solution...

...a different motion model for the receiver; and combining the plurality of filter solutions to **provide** a **first value** of the **dynamical quantity** based on weights that take into account the likelihood of the suitability of each motion...

...the basis of agreement of the first value of the **dynamical quantity** compared with a **second value** of the **dynamical quantity** as indicated by a single-point solution.

Claims:

...motion model for the receiver; and c) combining the plurality of filter solutions to provide a **first value** of the **dynamical quantity** based on weights that take into account the likelihood of the...

...the basis of agreement of the first value of the **dynamical quantity** compared with a **second value** of the **dynamical quantity** as indicated by a **single-point** solution...

...the basis of agreement of the first value of the dynamical quantity compared with a **second value** of the dynamical quantity as indicated by a single-point solution.

...

...of each motion model, with the likelihood determined on the basis of agreement of the **first value** of the dynamical quantity compared with a **second value** of the dynamical quantity as indicated by a single-point solution.

25/69,K/3 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0011130268 - Drawing available
WPI ACC NO: 2002-066785/200209
XRPX Acc No: N2002-049565

System for determining the affinity between data items using objective and subjective data and forming a ranked result based on the adjusted affinities

Patent Assignee: NAPSTER INC (NAPS-N); ROXIO INC (ROXI-N)

Inventor: JANNINK J F; SCHIRMER T E; SHIVAKUMAR N

Patent Family (4 patents, 92 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
WO 2001090926	A2	20011129	WO 2001US40760	A	20010517	200209 B
AU 200163504	A	20011203	AU 200163504	A	20010517	200221 E
US 6697800	B1	20040224	US 2000574108	A	20000519	200415 E
AU 2001263504	A8	20051013	AU 2001263504	A	20010517	200611 E

Priority Applications (no., kind, date): US 2000574108 A 20000519

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
WO 2001090926	A2	EN	30	6	
National Designated States,Original: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW					
Regional Designated States,Original: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW					
AU 200163504	A	EN			Based on OPI patent WO 2001090926
AU 2001263504	A8	EN			Based on OPI patent WO 2001090926

Alerting Abstract WO A2

NOVELTY - A filter (102) determines an affinity between a search item and other items in an objective database (104), where the determination uses data stored in objective and subjective databases (104,106). Objective data (120) can be collected from sources (114) and subjective data (122) from users (112) by the filter, while the users (112) interface with the filter via a user interface (108) and can enter a search item, with the resulting affinity relationship being displayed via the user interface, such as music from a favorite artist or song.

DESCRIPTION - AN INDEPENDENT CLAIM is included for a method for determining affinities using objective and subjective data.

USE - Determining affinity between items using objective and subjective data.

ADVANTAGE - Incorporating subjective data into a search process.

DESCRIPTION OF DRAWINGS - The drawing is a block diagram of the network

- 102 Filter
- 104,106 Databases
- 108 User interface
- 112 Users

Title Terms/Index Terms/Additional Words: SYSTEM; DETERMINE; AFFINITY; DATA ; ITEM; OBJECTIVE; SUBJECT; FORMING; RANK; RESULT; BASED; ADJUST

Class Codes

International Classification (Main): G06F-017/00, G06F-017/30

US Classification, Issued: 707005000

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): T01-J05B2; T01-J05B3; T01-J05B4P; T01-N03A2

...can be collected from sources (114) and subjective data (122) from users (112) by the **filter**, while the users (112) **interact** with the **filter** via a user interface (108) and can enter a search item, with the resulting affinity...

Original Publication Data by Authority

Claims:

...in the modified subset based on the affinity value calculated; andd. scaling the affinity value computed by **one or more predetermined** normalization weights, wherein the **one or more predetermined** normalization weights are **initially set by** the user.